

# DISCUSSION

# Regional seabed feature

The major topographic features depicted in the map series were formed by glas processes. In broad terms, these features depicted have to represent a good processes, in broad terms, these features are interpreted have to represent a good record, configering a series and optional processes, configering is series and optional positions to form the large belows. Its refuges, card valleys. Many other features observed here represent the latter stage depictation. They are the result of processes at work when much of the areas we concerned by stationary rotting loc, and when at the same time small valley gladers as the last were active in and not near sear only the propospher itself. The so is modeled

remove sedimentary deposits formed. Today, the sea floor is modified mainly by strong conductated models of the sea floor is modified mainly by strong continues turned flooring bottom currents caused by soon wides from the northeastern the northeastern through the continues of the season of the season with the season of th

### are built up by deposits of mud as Quadranele 1 fee

The northeastern part of Quadwagh 1—extending from the southeast course in the north-central deep of the may name—less the suchtweatern part of Schlauger Blass. The sea flow less is smooth must their deepes gonfly assisted through vasile part of the season of the quadwage central of gone blass and used just has, which are quite distinct in the used but which are increasively convent with must as useter depth increases toward subdiagen Blass in the sea. In the seasons and one-entering size of the quadwage dependent of partial less. and in the seasons and even central gains of the quadwage separated by small basins. The observation of these features parallels the movemer dependent of partial less. The contention of these features parallels the movemer dependent of partial less in the season of the season of the season of the features of the season of the season of the season of the season of the features of the season of partial deposition of the season of the season of the season of the season of the partial season of the season of the season of the season of the partial season of the season of the season of the season of the partial season of the season of the season of the season of the partial season of the season of the season of the season of the partial season of the Subdox, respectively depend depression in the sea flow and for the Subdox of the forthead of the SEC 500.

The basins that lie between the gravel banks are covered by sand and gravelly san One basin at 40 m (and greater) water depth has a smooth sand floor (42°11.6° N 70°34.4° W.), whereas a basin of intermediate depth (35 to 40 m) is rougher and pproximately 2-lemvide basin centered at 42°07.9°N. 70°34.6°W, is covered by and and gravel and it invalued by numerous northwaterbording bedforms. In the streeme continuestern part of the quadrangle, and deposits in the form of elongated deps teruding northwate 42°05.5°N, 70°94.8°W, but dvery small rounded features 22°05.4°N. 70°32.5°W) in 20 to 30 m water depth are finer grained than the sand a discover beave of the soahold.

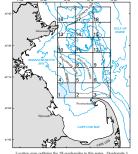
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entine, P.C., Baker, J.L., Unger, T.S., and Roworth, E.T., 1997, Sea floor topography of Quadrangle 1 in the Stdhwagen Bank National Marine Sanchaary off Boston, Macachusetts: U.S. Geological Survey Open-File Report 97–502, scale 1:25,000.

ine, P.C., Baker, J.L., Unger, T.S., and Polloni, C., 1998, Sea floor pographic map and perspective-view imagery of Quadrangles 1–18, Stellwagen ank National Marine Sanctuary off Boston, Massachusetts: U.S. Geological arvey Open-File Report 98–138, 1 CD-ROM.

Sarwey Open view repoir 99-136, I CD Procon.
Salentine, P.C., Unger, T.S., and Balvar, J.L., 2000, Sun-illuminated sea floctopography of Quadrangle 4 in the Stellwagen Bank National Marine Sanchian off Boston, Massachusetts: U.S. Geological Survey Geologic Investigations Series.



Location map outlining the 18 quadrangles in this series. Quadrangle 1 shown in blue. Stellwagen Bank National Marine Sanctuary (SBNMS)

# SUN-ILLUMINATED SEA FLOOR TOPOGRAPHY OF QUADRANGLE 1 IN THE STELLWAGEN BANK NATIONAL MARINE SANCTUARY OFF BOSTON, MASSACHUSETTS